## INTERNATIONAL SEARCH REPORT

'----national Application No \_T/US2004/019187

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B29C47/00 B29C47/76

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7-B29C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

ategory °	Citation of document with indication when a second of the	
alegory	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	US 3 597 850 A (JENKINS JOHN W) 10 August 1971 (1971-08-10)	1,23,27, 30,32,
	column 1, line 26 - line 43 column 1, line 64 - column 2, line 12	36,46
	claims 6,7; figures	
		2-22, 24-26, 28,29, 31, 33-35, 37-44, 47-49
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Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents:  A' document defining the general state of the art which is not considered to be of particular relevance  E' earlier document but published on or after the international filing date  L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  O' document referring to an oral disclosure, use, exhibition or other means  P' document published prior to the international filing date but later than the priority date claimed	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search  15 October 2004	Date of mailing of the international search report $05/11/2004$
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer  Jensen, K

## INTERNATIONAL SEARCH REPORT

	. 1/032004/01918/			
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No			
US 5 204 032 A (RIFI MAHMOUD R ET AL) 20 April 1993 (1993-04-20) abstract column 4, line 11 - line 46 column 4, line 60 - line 64 example 2 claims 1-4	45	45		
	2-22, 24-26, 28,29, 31, 33-35, 37-44, 47-49			
US 2003/121172 A1 (KAY THOMAS W) 3 July 2003 (2003-07-03)  abstract paragraph '0009!	1,4, 7-12,23, 26,30, 32-34, 36,39, 41,42			
US 6 458 910 B1 (SHIRODKAR PRADEEP P ET AL) 1 October 2002 (2002-10-01) the whole document	1-6, 22-36, 40,44-46	,		
US 4 552 712 A (RAMAMURTHY ARAKALGUD V) 12 November 1985 (1985-11-12) column 8, line 32 - line 55 column 9, line 6 - line 10 claim 1	1-49			
CARDINAL J CL ET AL: "FOLIENBLASEN OHNE SCHMELZBRUCH" KUNSTSTOFFE, CARL HANSER VERLAG. MUNCHEN, DE, vol. 86, no. 9, 1 September 1996 (1996-09-01), page 1334,1336,1338, XP000627897 ISSN: 0023-5563 the whole document	1,23,30,			
	20 April 1993 (1993-04-20) abstract column 4, line 11 - line 46 column 4, line 60 - line 64 example 2 claims 1-4  US 2003/121172 A1 (KAY THOMAS W) 3 July 2003 (2003-07-03)  abstract paragraph '0009! figure 1  US 6 458 910 B1 (SHIRODKAR PRADEEP P ET AL) 1 October 2002 (2002-10-01)  the whole document  US 4 552 712 A (RAMAMURTHY ARAKALGUD V) 12 November 1985 (1985-11-12) column 8, line 32 - line 55 column 9, line 6 - line 10 claim 1  CARDINAL J CL ET AL: "FOLIENBLASEN OHNE SCHMELZBRUCH" KUNSTSTOFFE, CARL HANSER VERLAG. MUNCHEN, DE, vol. 86, no. 9, 1 September 1996 (1996-09-01), page 1334,1336,1338, XP000627897 ISSN: 0023-5563	Citation of document, with indication, where appropriate, of the relevant passages		

## INTERNATIONAL SEARCH REPORT

nformation on patent family members

national Application No

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 3597850	Α	10-08-1971	NONE			
US 5204032	Α	20-04-1993	NONE			
US 2003121172	A1	03-07-2003	MO	03059593	A1	24-07-2003
US 6458910	B1	01-10-2002	US AU CA DE DE EP ES JP KR WO	2252031 69718901	B2 A A1 D1 T2 A1 T3 T	24-11-1998 24-02-2000 07-11-1997 23-10-1997 13-03-2003 06-11-2003 03-02-1999 16-07-2003 24-07-2001 25-01-2000 23-10-1997
US 4552712	A	12-11-1985	AT AU CA DE EP IN JP JP KR ZA	2994384 1210917 3465722 0137120 161446 1020972 1536175 60048322	B2 A1 D1 A1 A1 B C A B1	15-09-1987 03-03-1988 03-01-1985 09-09-1986 08-10-1987 17-04-1985 05-12-1987 19-04-1989 21-12-1989 16-03-1985 28-11-1988 27-03-1985